

Amendments to the Specification:

Please replace the paragraph beginning at page 5, line 10, with the following amended paragraph:

1  
A  
~~Co-owned co-pending application Serial Number 09/~~, ~~discloses one solution to the~~  
~~problems of the prior art devices. In both the prior art and the co-owned co-pending application,~~  
light from a laser is typically focused by passive optical elements to form three highly focused  
points of light at the plane of the disk. Other passive optical elements gather reflected light from  
these three points and focus the reflected light onto three separate detectors. The detectors  
produce track sensing signals that include a low noise pair of sinusoidal signals in exact  
quadrature indicating the track radial position.

Please replace the abstract at page 27 with the following amended abstract (a clean copy of the abstract as amended is attached):

2  
A  
A lensless optical servo system has an unfocused light source and patterned photodetectors. The unfocused light is reflected by [[the]] markings on an ~~LS-120~~ a rotating disk and the reflected light carries the pattern of the markings ~~the considerable distance in its far field~~ to the photodetectors. The convolution of this light pattern and a mating geometric pattern on the photodetectors causes the photodetectors to generate signals representing the position of the track on the disk. ~~According to a presently preferred~~ In one embodiment, a laser diode and three detectors are formed on the same silicon substrate. Sinusoidal metalization is applied to the detectors in the radial direction. The period of the sinusoidal metalization is two times the tracking pitch of the disk ~~radially and tangentially~~. The metalization on the first detector is approximately ninety degrees behind the metalization on the second detector and the metalization on the third detector is approximately ninety degrees ahead of the metalization on the second detector. ~~Preferably, each detector is provided with two sinusoidal patterns, approximately one hundred eighty degrees out of phase with each other, and spaced apart in the tangential direction.~~